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The Files (XG-1265 and RD-82)

28 November 1955

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Trip Report

1. On Thursday, 17 November 1955, a visit was made to the office of [REDACTED] for the purpose of technical liaison in connection with Contracts XG-1265 and RD-82. A conference was held in the office of Mr. [REDACTED] Vice-President and General Manager. Those present at the conference were:

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2. In connection with Contract XG-1265, the contractor stated that the later pre-production model antennas had been test flown against the initial antenna accepted by us and that both the VHF and UHF versions were acceptable. Delivery is anticipated within approximately one week. The physical connection between the ceramic coil form and the metal antenna proper was found to be physically quite weak, and will have to be strengthened prior to delivery of the prototypes. With this exception, the antenna appears to be physically and electrically an acceptable prototype unit.

3. In connection with delivery of the modified URC-4 antennas, the contractor indicated that according to the contract for procurement of this modification, the equipment appears to be classified SECRET. It has been determined that neither the URC-4 nor the DZ modification to this transceiver is considered to be classified SECRET; however, there is no indication of this in the contract. The contractor feels that it will be desirable to receive a letter from the Contracting Officer stating that the equipment should be shipped in an unclassified manner. It has been requested that the Contracting Officer write a letter authorizing unclassified shipment of this equipment.

4. In connection with RD-82, the range, sensitivity and selectivity characteristics of this receiver were discussed in the consideration of the specific requirements, distances from existing

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transmitters, and locations with respect to existing enemy equipment in order to specifically determine the type of receiver characteristics required for this application. In addition, further discussions were held on the techniques for concealment and the preferable items of clothing to be used in this application.

5. The contractor is presently bread-boarding various transistorized receiver circuitry in order to establish the primary components that will be required to be concealed. To date tests of crystal regenerative, super-regenerative, and super-hetrodyne circuitry have indicated that in order to get the selectivity and sensitivity required, it will probably be necessary to employ a super-hetrodyne circuit. At the time of this visit, the contractor had a bread-boarded super-hetrodyne circuit utilizing one [REDACTED] surface barrier transistor as an oscillator and mixer with a tuned circuit for the IF stage. In accordance with the contractor's request, the progress reports for the development of the RR-11AA/BB from [REDACTED] were delivered to the contractor for study in connection with this project.

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6. The contractor requested information on the availability of an easily obtainable catalyst to cause the depolarization of the plates in a home-made dissimilar metal battery. Experimentation has determined that a very acceptable battery could be constructed from two metals such as silver and copper with sodium chloride solution for the electrolyte. The major problem in this unit was the very rapid formation of polarization bubbles. We will attempt to determine a suitable and easily obtainable catalyst for this application.

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R&D-EP/WHH:mmmb (28 November 1955)

CC: Monthly Report
R&D Subject File (XG-1265)
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